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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/348,575	07/07/1999	CARMELO ZACCONE	Q55017	5420

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EXAMINER

ABELSON, RONALD B

ART UNIT PAPER NUMBER

2666

DATE MAILED: 03/11/2004

15

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/348,575

Applicant(s)

ZACCONE ET AL.

Examiner

Ronald Abelson

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 December 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 9-15 is/are allowed.
- 6) ☒ Claim(s) 1 and 5 is/are rejected.
- 7) ☒ Claim(s) 2-4 and 6-8 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 7/7/1999 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Claim Rejections - 35 USC § 102

1. Claims 1 and 5 rejected under 35 U.S.C. 102(e) as being anticipated by Saito (US 6,523,696).

Regarding claim 1, Saito teaches a method and apparatus for an Internet forwarding method (fig. 7), for forwarding Internet packets from a host fig. 7 box 205) to an Internet (fig. 7 box 202) towards a destination host (fig. 7 box 206, 207) connected to a private Internet network fig. 7 box 201, 206, 207), where the Internet network and the and the private network are coupled through at least one edge router (fig. 7 box 204), and where the destination host is assigned a global Internet address, said method comprising forwarding of the Internet packets from one of the at least one edge router toward the destination host based only on the global Internet address (col. 19 lines 16-20).

Allowable Subject Matter

2. Claims 9-15 are allowed.

3. Claims 2-4, and 6-8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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4. The following is a statement of reasons for the indication of allowable subject matter.

Regarding claim 2, 6, and 9 nothing in the prior art of record teaches or fairly suggests a router daemon in combination with the other limitations of the claim.

Regarding claims 3, 7, 10-12 nothing in the prior art of record teaches or fairly suggests notifying each router by sending a protocol message at assignment of a global Internet address in combination with the other limitations of the claims. Although Sosa (An OSPF-Based Routing Algorithm for SMDS Networks) teaches link state advertisements (LSA's) for updating routers in an OSPF environment, nothing in the prior art of record suggests the message is sent at assignment of a global Internet address.

Regarding claims 4 and 8, nothing in the prior art of record teaches or fairly suggests the edge router setting up the multicast groups in combination with the other limitations of the claims.

Regarding claim 13, nothing in the prior art of the record teaches or fairly suggests at least one edge router sets up a multicast group and the destination host generates a multicast join message, such that a multicast group is joined when the multicast join message is received by the at least one edge

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router, in combination with the other limitations listed in the claim.

Regarding claims 14 and 15, nothing in the prior art of the record teaches or fairly suggests a multicast group updating means, coupled with an input to an output of the message receptions means and adapted to interpret the multicast message containing the global Internet address of the destination host and update a multicast group in order to establish a branch of a multicast tree, wherein at least one edge router sets up the multicast group, in combination with the other limitations listed in the claim.

Response to Arguments

5. Applicant's arguments filed 12/12/2003 have been fully considered but they are not persuasive. In discussing the Saito reference, the applicant states, "terminals of the home network have their own IP addresses, which are assumed to be private IP addresses" (applicant: pg. 16 lines 10-11). However, the applicant referring to an embodiment in the reference where the public network is ISDN not the Internet. In the passage referred to by the examiner, Saito clearly refers to the IP addresses being global when the public network is the Internet (Saito: pg.

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19 lines 16-20). The applicant contends, "Saito's system presupposes a routing mechanism internal to the home network to perform routing in the conventional manner using network addressing translation technique (NAT), that is, with the routers of the home network using address translation to arrive at the private addresses of the home network terminals" (applicant: page. 17 lines 4-7). In contrast, Saito provides reasoning why private addresses are not needed (global IP address expected to be given in 128 bits, col. 19 lines 23-24).

Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

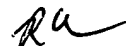
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however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ronald Abelson whose telephone number is (703) 306-5622. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on (703) 308-5463. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-9600.



Ronald Abelson
Examiner
Art Unit 2666

March 1, 2004



DANGTON
PATENT EXAMINER